

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,341  
Source: IFWP  
Date Processed by STIC: 10/12/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 10/12/2006

PATENT APPLICATION: US/10/535,341

TIME: 09:24:52

Input Set : E:\seq\_430156\_401uspc.app.txt

Output Set: N:\CRF4\10122006\J535341.raw

```

1 <110> APPLICANT: Jung, Sung Youb
2      Kim, Jin Sun
3      Yang, Geun Hee
4      Kwon, Se Chang
5      Lee, Gwan Sun
7 <120> TITLE OF INVENTION: IgG Fc FRAGMENT FOR A DRUG CARRIER AND METHOD FOR
THE PREPARATION
8      THEREOF
10 <130> FILE REFERENCE: 430156.401USPC
12 <140> CURRENT APPLICATION NUMBER: US 10/535,341
C--> 13 <141> CURRENT FILING DATE: 2005-05-17
15 <160> NUMBER OF SEQ ID NOS: 23
17 <170> SOFTWARE: KopatentIn 1.71
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 35
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: primer
28 <400> SEQUENCE: 1
29
cgctcatgccc agcacctgag ttctctggggg gacca                      35
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 42
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: primer
41 <400> SEQUENCE: 2
42
gggggatcct catttaccca gagacaggga gaggctcttc tg                42
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 12
47 <212> TYPE: PRT
48 <213> ORGANISM: Homo sapiens
50 <400> SEQUENCE: 3
51 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
52  1                               5                      10
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 663
57 <212> TYPE: DNA
58 <213> ORGANISM: homo sapiens
60 <400> SEQUENCE: 4
61

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63												
a	aggacactc	t	catgatctc	c	cgaccct	g	aggtcacgt	g	cgtggtggt	g	gacgtgagc	120
65												
c	aggaagacc	c	gaggtcca	g	ttcaactgg	t	acgtggatg	g	cgtggaggt	g	cataatgcc	180

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67
aagacaaagc cgcgggagga gcagttcaac agcacgtacc gtgtggtcag cgtcctcacc      240
69
gtcctgcacc aggactggct gaacggcaag gagtacaagt gcaaggctctc caacaaaggc      300
71
ctcccgtcct ccatcgagaa aaccatctcc aaagccaaag ggcagccccg agagccacag      360
73
gtgtacaccc tgcccccatc ccaggaggag atgaccaaga accaggtcag cctgacctgc      420
75
ctgggtcaaag gcttctaccc cagcgacatc gccgtggagt gggagagcaa tgggcagccg      480
77
gagaacaact acaagaccac gcctcccgtg ctggactccg acggctcctt ctctctctac      540
79
agcaggctaa ccgtggacaa gaggcagggtg caggagggga atgtcttctc atgctccgtg      600
81
atgcatgagg ctctgcacaa ccactacaca cagaagagcc tctccctgtc tctgggtaaa      660
83
tga      663
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 69
88 <212> TYPE: DNA
89 <213> ORGANISM: homo sapiens
91 <400> SEQUENCE: 5
92
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94
gcccaggcg      69
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 45
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: primer
106 <400> SEQUENCE: 6
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tctattgcta caaatgcccga ggccttccca accattccct tatcc      45
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 45
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: primer
119 <400> SEQUENCE: 7
120
agataacgat gtttacgggt ccggaagggt tggtaaggga atagg      45
123 <210> SEQ ID NO: 8
124 <211> LENGTH: 220
125 <212> TYPE: PRT
126 <213> ORGANISM: homo sapiens
128 <400> SEQUENCE: 8
129 Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
130 1 5 10 15
132 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val

```

133				20					25				30			
135	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
136				35				40					45			
138	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
139		50					55				60					
141	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
142	65					70				75						80
144	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
145					85				90						95	

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```

147 Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
148           100           105           110
150 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
151           115           120           125
153 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
154           130           135           140
156 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
157 145           150           155           160
159 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
160           165           170           175
162 Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu
163           180           185           190
165 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
166           195           200           205
168 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
169           210           215           220

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172 &lt;210&gt; SEQ ID NO: 9

173 &lt;211&gt; LENGTH: 654

174 &lt;212&gt; TYPE: DNA

175 &lt;213&gt; ORGANISM: homo sapiens

177 &lt;400&gt; SEQUENCE: 9

178

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gcacctgagt tcctgggggg accatcagtc ttctgttcc ccccaaaacc caaggacact      60
180
ctcatgatct cccggacccc tgaggtcacg tgcgtggtgg tggacgtgag ccaggaagac      120
182
cccgaggtcc agttcaactg gtacgtggat ggcgtggagg tgcataatgc caagacaaaag      180
184
ccgcgggagg agcagttcaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac      240
186
caggactggc tgaacggcaa ggagtacaag tgcaaggtct ccaacaaaagg cctcccgtcc      300
188
tccatcgaga aaaccatctc caaagccaaa gggcagcccc gagagccaca ggtgtacacc      360
190
ctgcccccat cccaggagga gatgaccaag aaccaggtca gcctgacctg cctgggtcaaa      420
192
ggcttctacc ccagcgacat cgccgtggag tgggagagca atgggcagcc ggagaacaac      480
194
tacaagacca cgcctcccgt gctggactcc gacggctcct tcttctctta cagcaggcta      540
196
accgtggaca agagcaggtg gcaggagggg aatgtcttct catgctccgt gatgcatgag      600
198
gctctgcaca accactacac acagaagagc ctctccctgt ctctgggtaa atga      654

```

201 &lt;210&gt; SEQ ID NO: 10

202 &lt;211&gt; LENGTH: 217

203 &lt;212&gt; TYPE: PRT

204 &lt;213&gt; ORGANISM: homo sapiens

206 &lt;400&gt; SEQUENCE: 10

```

207 Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
208 1           5           10           15
210 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
211           20           25           30
213 Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr

```

214		35					40					45				
216	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu
217		50					55					60				
219	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His
220	65					70				75					80	
222	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys
223					85					90					95	

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225 Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
226          100          105          110
228 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met
229          115          120          125
231 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
232          130          135          140
234 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
235 145          150          155          160
237 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
238          165          170          175
240 Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val
241          180          185          190
243 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
244          195          200          205
246 Lys Ser Leu Ser Leu Ser Leu Gly Lys
247          210          215

```

250 &lt;210&gt; SEQ ID NO: 11

251 &lt;211&gt; LENGTH: 33

252 &lt;212&gt; TYPE: DNA

253 &lt;213&gt; ORGANISM: Artificial Sequence

255 &lt;220&gt; FEATURE:

256 &lt;223&gt; OTHER INFORMATION: primer

259 &lt;400&gt; SEQUENCE: 11

260

cgccgtgccc agcacctgaa ctctctggggg gac

33

263 &lt;210&gt; SEQ ID NO: 12

264 &lt;211&gt; LENGTH: 33

265 &lt;212&gt; TYPE: DNA

266 &lt;213&gt; ORGANISM: Artificial Sequence

268 &lt;220&gt; FEATURE:

269 &lt;223&gt; OTHER INFORMATION: primer

272 &lt;400&gt; SEQUENCE: 12

273

gggggatcct catttacccg gagacagga gag

33

276 &lt;210&gt; SEQ ID NO: 13

277 &lt;211&gt; LENGTH: 15

278 &lt;212&gt; TYPE: PRT

279 &lt;213&gt; ORGANISM: homo sapiens

281 &lt;400&gt; SEQUENCE: 13

282 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro

283 1 5 10 15

286 &lt;210&gt; SEQ ID NO: 14

287 &lt;211&gt; LENGTH: 660

288 &lt;212&gt; TYPE: DNA

289 &lt;213&gt; ORGANISM: homo sapiens

291 &lt;400&gt; SEQUENCE: 14

292

ccgtgcccag cacctgaact cctgggggga ccgtcagtct tcctcttccc cccaaaaccc

60

294

aaggacacc tcgatgctc ccggaccct gaggtcacat gcgtgggtgg ggacgtgagc

120

296

cacgaagacc ctgaggtcaa gttcaactgg tacgtggacg gcgtggaggt gcataatgcc

180

298



aagacaaagc cgcgaggagga gcagtacaac agcacgtacc gtgtgggtcag cgtcctcacc  
300  
gtcctgcacc aggactggct gaatggcaag gagtacaagt gcaaggtctc caacaaagcc

240

300

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```

302
ctcccagccc ccacgcagaa aaccatctcc aaagccaaag ggcagccccg agagccacag      360
304
gtgtacaccc tgcccccatc ccgggatgag ctgaccaaga accaggtcag cctgacctgc      420
306
ctgggtcaaag gcttctatcc cagcgacatc gccgtggagt gggagagcaa tgggcagccg      480
308
gagaacaact acaagaccac gcctcccgtg ctggactccg acggctcctt cttcctctac      540
310
agcaagctca ccgtggacaa gagcagggtg cagcagggga acgtcttctc atgctccgtg      600
312
atgcatgagg ctctgcacaa ccactacacg cagaagagcc tctcctgtc tccgggtaaa      660
314

```

317 &lt;210&gt; SEQ ID NO: 15

318 &lt;211&gt; LENGTH: 220

319 &lt;212&gt; TYPE: PRT

320 &lt;213&gt; ORGANISM: homo sapiens

322 &lt;400&gt; SEQUENCE: 15

323 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe

324 1 5 10 15

326 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val

327 20 25 30

329 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe

330 35 40 45

332 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro

333 50 55 60

335 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr

336 65 70 75 80

338 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val

339 85 90 95

341 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala

342 100 105 110

344 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg

345 115 120 125

347 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly

348 130 135 140

350 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro

351 145 150 155 160

353 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser

354 165 170 175

356 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln

357 180 185 190

359 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His

360 195 200 205

362 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys

363 210 215 220

366 &lt;210&gt; SEQ ID NO: 16

367 &lt;211&gt; LENGTH: 26

368 &lt;212&gt; TYPE: DNA

369 &lt;213&gt; ORGANISM: Artificial Sequence

371 &lt;220&gt; FEATURE:

372 &lt;223&gt; OTHER INFORMATION: primer

375 <400> SEQUENCE: 16

376

cggcacctga actcctgggg ggaccg

26

379 <210> SEQ ID NO: 17

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/535,341

DATE: 10/12/2006

TIME: 09:24:54

Input Set : E:\seq\_430156\_401uspc.app.txt

Output Set: N:\CRF4\10122006\J535341.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date